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1 5 10

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<400> 3562  
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<210> 3657

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<400> 3661  
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Ile Phe His Lys Asn Asn Gln Leu  
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<400> 3679  
Lys Trp Met Ala Leu Glu Ser Ile

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<210> 3684  
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<400> 3684

Leu Phe Arg Asn Pro His Gln Ala Leu  
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Leu Phe Arg Asn Pro His Gln Ala Leu Leu  
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Leu Met Pro Tyr Gly Cys Leu Leu  
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<400> 3687

Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu  
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<400> 3688

Pro Met Cys Lys Gly Ser Arg Cys Trp  
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<400> 3689  
Pro Tyr Asp Gly Ile Pro Ala Arg Glu Ile  
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<400> 3690  
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<400> 3697  
Arg Trp Gly Leu Leu Leu Ala Leu  
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Arg Trp Gly Leu Leu Leu Ala Leu Leu  
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<400> 3701  
Ser Trp Leu Gly Leu Arg Ser Leu  
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Ser Tyr Leu Glu Asp Val Arg Leu

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Ser Tyr Met Pro Ile Trp Lys Phe

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<400> 3706

Thr Phe Gly Ala Lys Pro Tyr Asp Gly Ile

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<400> 3707

Thr Met Arg Arg Leu Leu Gln Glu Thr Glu Leu

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<211> 9

<212> PRT

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Thr Tyr Leu Pro Thr Asn Ala Ser Leu  
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<211> 11

<212> PRT

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<400> 3709

Thr Tyr Leu Pro Thr Asn Ala Ser Leu Ser Phe  
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<400> 3710

Val Phe Glu Thr Leu Glu Glu Ile  
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<400> 3711

Val Phe Gln Asn Leu Gln Val Ile  
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<210> 3712

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<212> PRT

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<400> 3712

Val Trp Ser Tyr Gly Val Thr Val Trp  
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<400> 3713  
Val Trp Ser Tyr Gly Val Thr Val Trp Glu Leu  
1 5 10

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<400> 3714  
Val Tyr Met Ile Met Val Lys Cys Trp  
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<400> 3715  
Val Tyr Met Ile Met Val Lys Cys Trp Met Ile  
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<400> 3716  
Trp Met Ala Leu Glu Ser Ile Leu  
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<400> 3717  
Trp Met Ile Asp Ser Glu Cys Arg Pro Arg Phe  
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<212> PRT  
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<400> 3718  
Tyr Met Ile Met Val Lys Cys Trp  
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<212> PRT  
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<400> 3719  
Tyr Met Ile Met Val Lys Cys Trp Met Ile  
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<210> 3720  
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<400> 3720  
Ala Cys Pro Tyr Asn Tyr Leu Ser Thr Asp Val Gly Ser Cys Thr  
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<210> 3721  
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<400> 3721  
Ala Ile Lys Val Leu Arg Glu Asn Thr Ser Pro Lys Ala Asn Lys  
1 5 10 15

<210> 3722  
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Ala Lys Gly Leu Gln Ser Leu Pro Thr His Asp Pro Ser Pro Leu  
1 5 10 15



<210> 3723  
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<400> 3723  
Ala Lys Pro Tyr Asp Gly Ile Pro Ala Arg Glu Ile Pro Asp Leu  
1 5 10 15

<210> 3724  
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<400> 3724  
Ala Arg Leu Leu Asp Ile Asp Glu Thr Glu Tyr His Ala Asp Gly  
1 5 10 15

<210> 3725  
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Ala Arg Asn Val Leu Val Lys Ser Pro Asn His Val Lys Ile Thr  
1 5 10 15

<210> 3726  
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Ala Ser Pro Leu Thr Ser Ile Ile Ser Ala Val Val Gly Ile Leu  
1 5 10 15

<210> 3727  
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<400> 3727  
Ala Tyr Ser Leu Thr Leu Gln Gly Leu Gly Ile Ser Trp Leu Gly

1 5 10 15

<210> 3728

<211> 15

<212> PRT

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<220>

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<400> 3728

Ala Tyr Val Met Ala Gly Val Gly Ser Pro Tyr Val Ser Arg Leu  
1 5 10 15

<210> 3729

<211> 15

<212> PRT

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<400> 3729

Cys Lys Lys Ile Phe Gly Ser Leu Ala Phe Leu Pro Glu Ser Phe  
1 5 10 15

<210> 3730

<211> 15

<212> PRT

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<400> 3730

Cys Leu His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro  
1 5 10 15

<210> 3731

<211> 15

<212> PRT

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<400> 3731

Cys Met Gln Ile Ala Lys Gly Met Ser Tyr Leu Glu Asp Val Arg  
1 5 10 15

<210> 3732

<211> 15

<212> PRT

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<400> 3732

Cys	Pro	Ala	Leu	Val	Thr	Tyr	Asn	Thr	Asp	Thr	Phe	Glu	Ser	Met
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<210> 3733

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<212> PRT

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<400> 3733

Cys	Gln	Ser	Leu	Thr	Arg	Thr	Val	Cys	Ala	Gly	Gly	Cys	Ala	Arg
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<210> 3734

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<400> 3734

Cys	Val	Asp	Leu	Asp	Asp	Lys	Gly	Cys	Pro	Ala	Glu	Gln	Arg	Ala
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<210> 3735

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<400> 3735

Cys	Tyr	Gly	Leu	Gly	Met	Glu	His	Leu	Arg	Glu	Val	Arg	Ala	Val
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<210> 3736

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<212> PRT

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<400> 3736

Asp	Glu	Ala	Tyr	Val	Met	Ala	Gly	Val	Gly	Ser	Pro	Tyr	Val	Ser
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<210> 3737

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<212> PRT

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<400> 3737

Asp	Glu	Cys	Val	Gly	Glu	Gly	Leu	Ala	Cys	His	Gln	Leu	Cys	Ala
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<210> 3738

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<212> PRT

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<400> 3738

Asp	Gly	Asp	Leu	Gly	Met	Gly	Ala	Ala	Lys	Gly	Leu	Gln	Ser	Leu
1				5					10					15

<210> 3739

<211> 15

<212> PRT

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<400> 3739

Asp	Gly	Tyr	Val	Ala	Pro	Leu	Thr	Cys	Ser	Pro	Gln	Pro	Glu	Tyr
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<210> 3740

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<212> PRT

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<220>

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<400> 3740

Asp	Leu	Thr	Leu	Gly	Leu	Glu	Pro	Ser	Glu	Glu	Glu	Ala	Pro	Arg
1				5					10					15

<210> 3741

<211> 15

<212> PRT

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<400> 3741

Asp	Met	Lys	Leu	Arg	Leu	Pro	Ala	Ser	Pro	Glu	Thr	His	Leu	Asp
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<210> 3742

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<212> PRT  
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<400> 3742  
Asp Pro Pro Phe Cys Val Ala Arg Cys Pro Ser Gly Val Lys Pro  
1 5 10 15

<210> 3743  
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<212> PRT  
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<400> 3743  
Asp Ser Thr Phe Tyr Arg Ser Leu Leu Glu Asp Asp Asp Met Gly  
1 5 10 15

<210> 3744  
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<400> 3744  
Asp Val Arg Leu Val His Arg Asp Leu Ala Ala Arg Asn Val Leu  
1 5 10 15

<210> 3745  
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<400> 3745  
Asp Val Tyr Met Ile Met Val Lys Cys Trp Met Ile Asp Ser Glu  
1 5 10 15

<210> 3746  
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<212> PRT  
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<220>  
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<400> 3746  
Glu Cys Arg Val Leu Gln Gly Leu Pro Arg Glu Tyr Val Asn Ala  
1 5 10 15

<210> 3747  
<211> 15  
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<220>  
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<400> 3747  
Glu Asp Asn Tyr Ala Leu Ala Val Leu Asp Asn Gly Asp Pro Leu  
1 5 10 15

<210> 3748  
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<212> PRT  
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<220>  
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<400> 3748  
Glu Gly Pro Leu Pro Ala Ala Arg Pro Ala Gly Ala Thr Leu Glu  
1 5 10 15

<210> 3749  
<211> 15  
<212> PRT  
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<400> 3749  
Glu Gly Arg Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro  
1 5 10 15

<210> 3750  
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<212> PRT  
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<220>  
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<400> 3750  
Glu Leu Thr Tyr Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln  
1 5 10 15

<210> 3751  
<211> 15  
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<220>  
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<400> 3751  
Glu Ser Ile Leu Arg Arg Arg Phe Thr His Gln Ser Asp Val Trp

1 5 10 15

<210> 3752

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3752

Glu Thr Glu Leu Arg Lys Val Lys Val Leu Gly Ser Gly Ala Phe  
1 5 10 15

<210> 3753

<211> 15

<212> PRT

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<220>

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<400> 3753

Glu Thr Glu Leu Val Glu Pro Leu Thr Pro Ser Gly Ala Met Pro  
1 5 10 15

<210> 3754

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3754

Phe Arg Glu Leu Val Ser Glu Phe Ser Arg Met Ala Arg Asp Pro  
1 5 10 15

<210> 3755

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3755

Phe Val Val Ile Gln Asn Glu Asp Leu Gly Pro Ala Ser Pro Leu  
1 5 10 15

<210> 3756

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3756

Gly	Ala	Thr	Leu	Glu	Arg	Pro	Lys	Thr	Leu	Ser	Pro	Gly	Lys	Asn
1				5					10					15

<210> 3757

<211> 15

<212> PRT

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<400> 3757

Gly	Cys	Gln	Val	Val	Gln	Gly	Asn	Leu	Glu	Leu	Thr	Tyr	Leu	Pro
1				5					10					15

<210> 3758

<211> 15

<212> PRT

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<220>

<223> Artificially Synthesized Peptide

<400> 3758

Gly	Asp	Pro	Leu	Asn	Asn	Thr	Thr	Pro	Val	Thr	Gly	Ala	Ser	Pro
1				5					10					15

<210> 3759

<211> 15

<212> PRT

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<400> 3759

Gly	Glu	Gly	Leu	Ala	Cys	His	Gln	Leu	Cys	Ala	Arg	Gly	His	Cys
1				5					10					15

<210> 3760

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<212> PRT

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<400> 3760

Gly	Glu	Asn	Val	Lys	Ile	Pro	Val	Ala	Ile	Lys	Val	Leu	Arg	Glu
1				5					10					15

<210> 3761

<211> 15

<212> PRT

<213> Artificial Sequence



<220>

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<400> 3761

Gly	Glu	Arg	Leu	Pro	Gln	Pro	Pro	Ile	Cys	Thr	Ile	Asp	Val	Tyr
1				5					10					15

<210> 3762

<211> 15

<212> PRT

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<220>

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<400> 3762

Gly	Gly	Lys	Val	Pro	Ile	Lys	Trp	Met	Ala	Leu	Glu	Ser	Ile	Leu
1				5					10					15

<210> 3763

<211> 15

<212> PRT

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<220>

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<400> 3763

Gly	Gly	Val	Leu	Ile	Gln	Arg	Asn	Pro	Gln	Leu	Cys	Tyr	Gln	Asp
1				5					10					15

<210> 3764

<211> 15

<212> PRT

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<400> 3764

Gly	His	Cys	Trp	Gly	Pro	Gly	Pro	Thr	Gln	Cys	Val	Asn	Cys	Ser
1				5					10					15

<210> 3765

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<223> Artificially Synthesized Peptide

<400> 3765

Gly	Ile	Ser	Trp	Leu	Gly	Leu	Arg	Ser	Leu	Arg	Glu	Leu	Gly	Ser
1				5					10					15

<210> 3766

<211> 15

<212> PRT  
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<220>  
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<400> 3766  
Gly Leu Ala Leu Ile His His Asn Thr His Leu Cys Phe Val His  
1 5 10 15

<210> 3767  
<211> 15  
<212> PRT  
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<220>  
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<400> 3767  
Gly Leu Gly Ile Ser Trp Leu Gly Leu Arg Ser Leu Arg Glu Leu  
1 5 10 15

<210> 3768  
<211> 15  
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<213> Artificial Sequence

<220>  
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<400> 3768  
Gly Leu Leu Leu Ala Leu Leu Pro Pro Gly Ala Ala Ser Thr Gln  
1 5 10 15

<210> 3769  
<211> 15  
<212> PRT  
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<220>  
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<400> 3769  
Gly Ser Asp Val Phe Asp Gly Asp Leu Gly Met Gly Ala Ala Lys  
1 5 10 15

<210> 3770  
<211> 15  
<212> PRT  
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<220>  
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<400> 3770  
Gly Ser Pro Tyr Val Ser Arg Leu Leu Gly Ile Cys Leu Thr Ser  
1 5 10 15

<210> 3771  
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<212> PRT  
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<220>  
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<400> 3771  
Gly Thr Asp Met Lys Leu Arg Leu Pro Ala Ser Pro Glu Thr His  
1 5 10 15

<210> 3772  
<211> 15  
<212> PRT  
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<220>  
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<400> 3772  
Gly Thr Val Tyr Lys Gly Ile Trp Ile Pro Asp Gly Glu Asn Val  
1 5 10 15

<210> 3773  
<211> 15  
<212> PRT  
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<220>  
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<400> 3773  
Gly Val Thr Val Trp Glu Leu Met Thr Phe Gly Ala Lys Pro Tyr  
1 5 10 15

<210> 3774  
<211> 15  
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<400> 3774  
Gly Tyr Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu Pro Asp Leu  
1 5 10 15

<210> 3775  
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<220>  
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<400> 3775  
His Leu Cys Phe Val His Thr Val Pro Trp Asp Gln Leu Phe Arg

1 5 10 15

<210> 3776

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3776

His Asn Gln Val Arg Gln Val Pro Leu Gln Arg Leu Arg Ile Val  
1 5 10 15

<210> 3777

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3777

His Arg Asp Leu Ala Ala Arg Asn Val Leu Val Lys Ser Pro Asn  
1 5 10 15

<210> 3778

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3778

His Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val Thr Tyr  
1 5 10 15

<210> 3779

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3779

His Val Lys Ile Thr Asp Phe Gly Leu Ala Arg Leu Leu Asp Ile  
1 5 10 15

<210> 3780

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3780

Ile Cys Glu Leu His Cys Pro Ala Leu Val Thr Tyr Asn Thr Asp  
1 5 10 15

<210> 3781

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3781

Ile Cys Thr Ile Asp Val Tyr Met Ile Met Val Lys Cys Trp Met  
1 5 10 15

<210> 3782

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3782

Ile Lys Val Leu Arg Glu Asn Thr Ser Pro Lys Ala Asn Lys Glu  
1 5 10 15

<210> 3783

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3783

Ile Lys Trp Met Ala Leu Glu Ser Ile Leu Arg Arg Arg Phe Thr  
1 5 10 15

<210> 3784

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3784

Ile Leu Leu Val Val Val Leu Gly Val Val Phe Gly Ile Leu Ile  
1 5 10 15

<210> 3785

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3785

Ile	Gln	Glu	Val	Gln	Gly	Tyr	Val	Leu	Ile	Ala	His	Asn	Gln	Val
1				5				10					15	

<210> 3786

<211> 15

<212> PRT

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<220>

<223> Artificially Synthesized Peptide

<400> 3786

Ile	Arg	Lys	Tyr	Thr	Met	Arg	Arg	Leu	Leu	Gln	Glu	Thr	Glu	Leu
1				5				10					15	

<210> 3787

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3787

Ile	Ser	Ala	Val	Val	Gly	Ile	Leu	Leu	Val	Val	Val	Leu	Gly	Val
1				5				10					15	

<210> 3788

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3788

Ile	Ser	Ala	Trp	Pro	Asp	Ser	Leu	Pro	Asp	Leu	Ser	Val	Phe	Gln
1				5				10					15	

<210> 3789

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3789

Ile	Ser	Trp	Leu	Gly	Leu	Arg	Ser	Leu	Arg	Glu	Leu	Gly	Ser	Gly
1				5				10					15	

<210> 3790

<211> 15

<212> PRT  
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<220>  
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<400> 3790  
Ile Thr Asp Phe Gly Leu Ala Arg Leu Leu Asp Ile Asp Glu Thr  
1 5 10 15

<210> 3791  
<211> 15  
<212> PRT  
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<220>  
<223> Artificially Synthesized Peptide

<400> 3791  
Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu Pro  
1 5 10 15

<210> 3792  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 3792  
Lys Cys Trp Met Ile Asp Ser Glu Cys Arg Pro Arg Phe Arg Glu  
1 5 10 15

<210> 3793  
<211> 15  
<212> PRT  
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<220>  
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<400> 3793  
Lys Asp Val Phe Ala Phe Gly Gly Ala Val Glu Asn Pro Glu Tyr  
1 5 10 15

<210> 3794  
<211> 15  
<212> PRT  
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<220>  
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<400> 3794  
Lys Glu Ile Leu Asp Glu Ala Tyr Val Met Ala Gly Val Gly Ser  
1 5 10 15

<210> 3795  
<211> 15  
<212> PRT  
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<220>  
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<400> 3795  
Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys Ala Ala  
1 5 10 15

<210> 3796  
<211> 15  
<212> PRT  
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<220>  
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<400> 3796  
Lys Ile Pro Val Ala Ile Lys Val Leu Arg Glu Asn Thr Ser Pro  
1 5 10 15

<210> 3797  
<211> 15  
<212> PRT  
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<220>  
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<400> 3797  
Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp Lys Phe Pro Asp Glu  
1 5 10 15

<210> 3798  
<211> 15  
<212> PRT  
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<220>  
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<400> 3798  
Lys Val Lys Val Leu Gly Ser Gly Ala Phe Gly Thr Val Tyr Lys  
1 5 10 15

<210> 3799  
<211> 15  
<212> PRT  
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<220>  
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<400> 3799  
Lys Val Pro Ile Lys Trp Met Ala Leu Glu Ser Ile Leu Arg Arg



1 5 10 15

<210> 3800

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3800

Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu Pro  
1 5 10 15

<210> 3801

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3801

Leu Ala Cys Leu His Phe Asn His Ser Gly Ile Cys Glu Leu His  
1 5 10 15

<210> 3802

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3802

Leu Ala Leu Leu Pro Pro Gly Ala Ala Ser Thr Gln Val Cys Thr  
1 5 10 15

<210> 3803

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3803

Leu Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro  
1 5 10 15

<210> 3804

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3804

Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu Pro Pro Gly Ala  
1 5 10 15

<210> 3805

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3805

Leu Gly Val Val Phe Gly Ile Leu Ile Lys Arg Arg Gln Gln Lys  
1 5 10 15

<210> 3806

<211> 15

<212> PRT

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<220>

<223> Artificially Synthesized Peptide

<400> 3806

Leu Leu Ala Leu Leu Pro Pro Gly Ala Ala Ser Thr Gln Val Cys  
1 5 10 15

<210> 3807

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3807

Leu Leu Gly Ile Cys Leu Thr Ser Thr Val Gln Leu Val Thr Gln  
1 5 10 15

<210> 3808

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3808

Leu Leu Asn Trp Cys Met Gln Ile Ala Lys Gly Met Ser Tyr Leu  
1 5 10 15

<210> 3809

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3809

Leu	Leu	Val	Val	Val	Leu	Gly	Val	Val	Phe	Gly	Ile	Leu	Ile	Lys
1				5					10					15

<210> 3810

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3810

Leu	Gln	Gly	Leu	Gly	Ile	Ser	Trp	Leu	Gly	Leu	Arg	Ser	Leu	Arg
1				5					10					15

<210> 3811

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3811

Leu	Gln	Gly	Leu	Pro	Arg	Glu	Tyr	Val	Asn	Ala	Arg	His	Cys	Leu
1				5					10					15

<210> 3812

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3812

Leu	Gln	Arg	Tyr	Ser	Glu	Asp	Pro	Thr	Val	Pro	Leu	Pro	Ser	Glu
1				5					10					15

<210> 3813

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3813

Leu	Gln	Ser	Leu	Pro	Thr	His	Asp	Pro	Ser	Pro	Leu	Gln	Arg	Tyr
1				5					10					15

<210> 3814

<211> 15

<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 3814  
Leu Gln Val Ile Arg Gly Arg Ile Leu His Asn Gly Ala Tyr Ser  
1 5 10 15

<210> 3815  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificially Synthesized Peptide

<400> 3815  
Leu Arg Glu Leu Gly Ser Gly Leu Ala Leu Ile His His Asn Thr  
1 5 10 15

<210> 3816  
<211> 15  
<212> PRT  
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<220>  
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<400> 3816  
Leu Arg Glu Leu Gln Leu Arg Ser Leu Thr Glu Ile Leu Lys Gly  
1 5 10 15

<210> 3817  
<211> 15  
<212> PRT  
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<220>  
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<400> 3817  
Leu Arg Glu Val Arg Ala Val Thr Ser Ala Asn Ile Gln Glu Phe  
1 5 10 15

<210> 3818  
<211> 15  
<212> PRT  
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<220>  
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<400> 3818  
Leu Arg Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr Ala  
1 5 10 15

<210> 3819  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 3819  
Leu Arg Lys Val Lys Val Leu Gly Ser Gly Ala Phe Gly Thr Val  
1 5 10 15

<210> 3820  
<211> 15  
<212> PRT  
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<220>  
<223> Artificially Synthesized Peptide

<400> 3820  
Leu Arg Ser Leu Arg Glu Leu Gly Ser Gly Leu Ala Leu Ile His  
1 5 10 15

<210> 3821  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 3821  
Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg Gly Arg Ile Leu  
1 5 10 15

<210> 3822  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 3822  
Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro  
1 5 10 15

<210> 3823  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 3823  
Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys His Pro Cys

1 5 10 15

<210> 3824  
<211> 15  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Artificially Synthesized Peptide  
  
<400> 3824  
Leu Thr Ser Ile Ile Ser Ala Val Val Gly Ile Leu Leu Val Val  
1 5 10 15

<210> 3825  
<211> 15  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
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<400> 3825  
Leu Thr Tyr Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp  
1 5 10 15

<210> 3826  
<211> 15  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Artificially Synthesized Peptide  
  
<400> 3826  
Leu Tyr Tyr Trp Asp Gln Asp Pro Pro Glu Arg Gly Ala Pro Pro  
1 5 10 15

<210> 3827  
<211> 15  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Artificially Synthesized Peptide  
  
<400> 3827  
Met Ala Gly Val Gly Ser Pro Tyr Val Ser Arg Leu Leu Gly Ile  
1 5 10 15

<210> 3828  
<211> 15  
<212> PRT  
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<220>  
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<400> 3828

Met	Glu	His	Leu	Arg	Glu	Val	Arg	Ala	Val	Thr	Ser	Ala	Asn	Ile
1				5					10					15

<210> 3829

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3829

Met	Ile	Met	Val	Lys	Cys	Trp	Met	Ile	Asp	Ser	Glu	Cys	Arg	Pro
1				5					10					15

<210> 3830

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3830

Met	Arg	Ile	Leu	Lys	Glu	Thr	Glu	Leu	Arg	Lys	Val	Lys	Val	Leu
1				5					10					15

<210> 3831

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3831

Met	Ser	Tyr	Leu	Glu	Asp	Val	Arg	Leu	Val	His	Arg	Asp	Leu	Ala
1				5					10					15

<210> 3832

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3832

Asn	Glu	Asp	Leu	Gly	Pro	Ala	Ser	Pro	Leu	Asp	Ser	Thr	Phe	Tyr
1				5					10					15

<210> 3833

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3833

Asn	Gly	Ser	Val	Thr	Cys	Phe	Gly	Pro	Glu	Ala	Asp	Gln	Cys	Val
1				5					10					15

<210> 3834

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3834

Asn	Gly	Val	Val	Lys	Asp	Val	Phe	Ala	Phe	Gly	Gly	Ala	Val	Glu
1				5					10					15

<210> 3835

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3835

Asn	Leu	Glu	Leu	Thr	Tyr	Leu	Pro	Thr	Asn	Ala	Ser	Leu	Ser	Phe
1				5					10					15

<210> 3836

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3836

Asn	Leu	Gln	Val	Ile	Arg	Gly	Arg	Ile	Leu	His	Asn	Gly	Ala	Tyr
1				5					10					15

<210> 3837

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3837

Asn	Leu	Tyr	Tyr	Trp	Asp	Gln	Asp	Pro	Pro	Glu	Arg	Gly	Ala	Pro
1				5					10					15

<210> 3838

<211> 15



<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificially Synthesized Peptide

<400> 3838  
Asn Asn Gln Leu Ala Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg  
1 5 10 15

<210> 3839  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificially Synthesized Peptide

<400> 3839  
Asn Pro Gln Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile  
1 5 10 15

<210> 3840  
<211> 15  
<212> PRT  
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<220>  
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<400> 3840  
Asn Thr His Leu Cys Phe Val His Thr Val Pro Trp Asp Gln Leu  
1 5 10 15

<210> 3841  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificially Synthesized Peptide

<400> 3841  
Pro Cys Pro Ile Asn Cys Thr His Ser Cys Val Asp Leu Asp Asp  
1 5 10 15

<210> 3842  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificially Synthesized Peptide

<400> 3842  
Pro Asp Ser Leu Pro Asp Leu Ser Val Phe Gln Asn Leu Gln Val  
1 5 10 15

<210> 3843  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificially Synthesized Peptide

<400> 3843  
Pro Glu Gln Leu Gln Val Phe Glu Thr Leu Glu Glu Ile Thr Gly  
1 5 10 15

<210> 3844  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificially Synthesized Peptide

<400> 3844  
Pro Glu Ser Phe Asp Gly Asp Pro Ala Ser Asn Thr Ala Pro Leu  
1 5 10 15

<210> 3845  
<211> 15  
<212> PRT  
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<220>  
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<400> 3845  
Pro Glu Tyr Val Asn Gln Pro Asp Val Arg Pro Gln Pro Pro Ser  
1 5 10 15

<210> 3846  
<211> 15  
<212> PRT  
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<220>  
<223> Artificially Synthesized Peptide

<400> 3846  
Pro Phe Cys Val Ala Arg Cys Pro Ser Gly Val Lys Pro Asp Leu  
1 5 10 15

<210> 3847  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificially Synthesized Peptide

<400> 3847  
Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser Leu Thr Glu Ile

1 5 10 15

<210> 3848

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3848

Pro Ile Lys Trp Met Ala Leu Glu Ser Ile Leu Arg Arg Arg Phe  
1 5 10 15

<210> 3849

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3849

Pro Ser Gly Val Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp Lys  
1 5 10 15

<210> 3850

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3850

Pro Ser Thr Phe Lys Gly Thr Pro Thr Ala Glu Asn Pro Glu Tyr  
1 5 10 15

<210> 3851

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3851

Pro Tyr Asn Tyr Leu Ser Thr Asp Val Gly Ser Cys Thr Leu Val  
1 5 10 15

<210> 3852

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3852

Gln	Asp	Thr	Ile	Leu	Trp	Lys	Asp	Ile	Phe	His	Lys	Asn	Asn	Gln
1				5					10					15

<210> 3853

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3853

Gln	Glu	Cys	Val	Glu	Glu	Cys	Arg	Val	Leu	Gln	Gly	Leu	Pro	Arg
1				5					10					15

<210> 3854

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3854

Gln	Gly	Phe	Phe	Cys	Pro	Asp	Pro	Ala	Pro	Gly	Ala	Gly	Gly	Met
1				5					10					15

<210> 3855

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3855

Gln	Gly	Asn	Leu	Glu	Leu	Thr	Tyr	Leu	Pro	Thr	Asn	Ala	Ser	Leu
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<210> 3856

<211> 15

<212> PRT

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<400> 3856

Gln	Leu	Ala	Leu	Thr	Leu	Ile	Asp	Thr	Asn	Arg	Ser	Arg	Ala	Cys
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<210> 3857

<211> 15

<212> PRT

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<400> 3857

Gln	Leu	Cys	Tyr	Gln	Asp	Thr	Ile	Leu	Trp	Lys	Asp	Ile	Phe	His
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<210> 3858

<211> 15

<212> PRT

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<400> 3858

Gln	Pro	Asp	Val	Arg	Pro	Gln	Pro	Pro	Ser	Pro	Arg	Glu	Gly	Pro
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<210> 3859

<211> 15

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<400> 3859

Gln	Pro	Pro	Ile	Cys	Thr	Ile	Asp	Val	Tyr	Met	Ile	Met	Val	Lys
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<210> 3860

<211> 15

<212> PRT

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<400> 3860

Gln	Gln	Gly	Phe	Phe	Cys	Pro	Asp	Pro	Ala	Pro	Gly	Ala	Gly	Gly
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<210> 3861

<211> 15

<212> PRT

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<400> 3861

Gln	Gln	Lys	Ile	Arg	Lys	Tyr	Thr	Met	Arg	Arg	Leu	Leu	Gln	Glu
1				5					10					15

<210> 3862

<211> 15

<212> PRT  
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<400> 3862  
Gln Ser Asp Val Trp Ser Tyr Gly Val Thr Val Trp Glu Leu Met  
1 5 10 15

<210> 3863  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 3863  
Gln Val Pro Leu Gln Arg Leu Arg Ile Val Arg Gly Thr Gln Leu  
1 5 10 15

<210> 3864  
<211> 15  
<212> PRT  
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<220>  
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<400> 3864  
Arg Glu Tyr Val Asn Ala Arg His Cys Leu Pro Cys His Pro Glu  
1 5 10 15

<210> 3865  
<211> 15  
<212> PRT  
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<220>  
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<400> 3865  
Arg Gly Arg Ile Leu His Asn Gly Ala Tyr Ser Leu Thr Leu Gln  
1 5 10 15

<210> 3866  
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<220>  
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<400> 3866  
Arg Gly Arg Leu Gly Ser Gln Asp Leu Leu Asn Trp Cys Met Gln  
1 5 10 15

<210> 3867  
<211> 15  
<212> PRT  
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<220>  
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<400> 3867  
Arg His Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu Glu  
1 5 10 15

<210> 3868  
<211> 15  
<212> PRT  
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<220>  
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<400> 3868  
Arg Pro Arg Phe Arg Glu Leu Val Ser Glu Phe Ser Arg Met Ala  
1 5 10 15

<210> 3869  
<211> 15  
<212> PRT  
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<400> 3869  
Arg Arg Leu Leu Gln Glu Thr Glu Leu Val Glu Pro Leu Thr Pro  
1 5 10 15

<210> 3870  
<211> 15  
<212> PRT  
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<400> 3870  
Arg Ser Leu Leu Glu Asp Asp Asp Met Gly Asp Leu Val Asp Ala  
1 5 10 15

<210> 3871  
<211> 15  
<212> PRT  
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<220>  
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<400> 3871  
Arg Trp Gly Leu Leu Leu Ala Leu Leu Pro Pro Gly Ala Ala Ser

1 5 10 15

<210> 3872  
<211> 15  
<212> PRT  
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<220>  
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<400> 3872  
Arg Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro Tyr Asn  
1 5 10 15

<210> 3873  
<211> 15  
<212> PRT  
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<220>  
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<400> 3873  
Ser Ala Val Val Gly Ile Leu Leu Val Val Val Leu Gly Val Val  
1 5 10 15

<210> 3874  
<211> 15  
<212> PRT  
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<220>  
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<400> 3874  
Ser Asp Val Trp Ser Tyr Gly Val Thr Val Trp Glu Leu Met Thr  
1 5 10 15

<210> 3875  
<211> 15  
<212> PRT  
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<400> 3875  
Ser Leu Thr Leu Gln Gly Leu Gly Ile Ser Trp Leu Gly Leu Arg  
1 5 10 15

<210> 3876  
<211> 15  
<212> PRT  
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<220>  
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<400> 3876

Ser	Gln	Asp	Leu	Leu	Asn	Trp	Cys	Met	Gln	Ile	Ala	Lys	Gly	Met
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<210> 3877

<211> 15

<212> PRT

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<400> 3877

Ser	Gln	Phe	Leu	Arg	Gly	Gln	Glu	Cys	Val	Glu	Glu	Cys	Arg	Val
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<210> 3878

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3878

Ser	Arg	Leu	Leu	Gly	Ile	Cys	Leu	Thr	Ser	Thr	Val	Gln	Leu	Val
1				5					10					15

<210> 3879

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3879

Ser	Thr	Asp	Val	Gly	Ser	Cys	Thr	Leu	Val	Cys	Pro	Leu	His	Asn
1				5					10					15

<210> 3880

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3880

Ser	Tyr	Gly	Val	Thr	Val	Trp	Glu	Leu	Met	Thr	Phe	Gly	Ala	Lys
1				5					10					15

<210> 3881

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3881

Thr	Ala	Pro	Leu	Gln	Pro	Glu	Gln	Leu	Gln	Val	Phe	Glu	Thr	Leu
1				5					10					15

<210> 3882

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3882

Thr	Asp	Gly	Tyr	Val	Ala	Pro	Leu	Thr	Cys	Ser	Pro	Gln	Pro	Glu
1				5					10					15

<210> 3883

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3883

Thr	Glu	Ile	Leu	Lys	Gly	Gly	Val	Leu	Ile	Gln	Arg	Asn	Pro	Gln
1				5					10					15

<210> 3884

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3884

Thr	Glu	Leu	Val	Glu	Pro	Leu	Thr	Pro	Ser	Gly	Ala	Met	Pro	Asn
1				5					10					15

<210> 3885

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3885

Thr	Ile	Asp	Val	Tyr	Met	Ile	Met	Val	Lys	Cys	Trp	Met	Ile	Asp
1				5					10					15

<210> 3886

<211> 15

<212> PRT  
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<220>  
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<400> 3886  
Thr Gln Leu Phe Glu Asp Asn Tyr Ala Leu Ala Val Leu Asp Asn  
1 5 10 15

<210> 3887  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificially Synthesized Peptide

<400> 3887  
Thr Gln Leu Met Pro Tyr Gly Cys Leu Leu Asp His Val Arg Glu  
1 5 10 15

<210> 3888  
<211> 15  
<212> PRT  
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<220>  
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<400> 3888  
Thr Arg Thr Val Cys Ala Gly Gly Cys Ala Arg Cys Lys Gly Pro  
1 5 10 15

<210> 3889  
<211> 15  
<212> PRT  
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<220>  
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<400> 3889  
Thr Thr Pro Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu  
1 5 10 15

<210> 3890  
<211> 15  
<212> PRT  
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<220>  
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<400> 3890  
Thr Val Gln Leu Val Thr Gln Leu Met Pro Tyr Gly Cys Leu Leu  
1 5 10 15

<210> 3891  
<211> 15  
<212> PRT  
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<220>  
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<400> 3891  
Val Cys Pro Leu His Asn Gln Glu Val Thr Ala Glu Asp Gly Thr  
1 5 10 15

<210> 3892  
<211> 15  
<212> PRT  
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<220>  
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<400> 3892  
Val Glu Pro Leu Thr Pro Ser Gly Ala Met Pro Asn Gln Ala Gln  
1 5 10 15

<210> 3893  
<211> 15  
<212> PRT  
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<220>  
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<400> 3893  
Val Gly Ile Leu Leu Val Val Val Leu Gly Val Val Phe Gly Ile  
1 5 10 15

<210> 3894  
<211> 15  
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<220>  
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<400> 3894  
Val His Thr Val Pro Trp Asp Gln Leu Phe Arg Asn Pro His Gln  
1 5 10 15

<210> 3895  
<211> 15  
<212> PRT  
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<220>  
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<400> 3895  
Val Leu Gly Val Val Phe Gly Ile Leu Ile Lys Arg Arg Gln Gln

1 5 10 15

<210> 3896

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3896

Val Gln Leu Val Thr Gln Leu Met Pro Tyr Gly Cys Leu Leu Asp  
1 5 10 15

<210> 3897

<211> 15

<212> PRT

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<220>

<223> Artificially Synthesized Peptide

<400> 3897

Val Arg Ala Val Thr Ser Ala Asn Ile Gln Glu Phe Ala Gly Cys  
1 5 10 15

<210> 3898

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3898

Val Arg Leu Val His Arg Asp Leu Ala Ala Arg Asn Val Leu Val  
1 5 10 15

<210> 3899

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3899

Val Arg Gln Val Pro Leu Gln Arg Leu Arg Ile Val Arg Gly Thr  
1 5 10 15

<210> 3900

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3900

Val Ser Arg Leu Leu Gly Ile Cys Leu Thr Ser Thr Val Gln Leu  
1 5 10 15

<210> 3901

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3901

Val Thr Gln Leu Met Pro Tyr Gly Cys Leu Leu Asp His Val Arg  
1 5 10 15

<210> 3902

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3902

Val Val Gly Ile Leu Leu Val Val Val Leu Gly Val Val Phe Gly  
1 5 10 15

<210> 3903

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3903

Val Trp Glu Leu Met Thr Phe Gly Ala Lys Pro Tyr Asp Gly Ile  
1 5 10 15

<210> 3904

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3904

Trp Gly Leu Leu Leu Ala Leu Leu Pro Pro Gly Ala Ala Ser Thr  
1 5 10 15

<210> 3905

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3905

Tyr	Asp	Gly	Ile	Pro	Ala	Arg	Glu	Ile	Pro	Asp	Leu	Leu	Glu	Lys
1				5					10					15

<210> 3906

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3906

Tyr	Met	Ile	Met	Val	Lys	Cys	Trp	Met	Ile	Asp	Ser	Glu	Cys	Arg
1				5					10					15

<210> 3907

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3907

Tyr	Val	Leu	Ile	Ala	His	Asn	Gln	Val	Arg	Gln	Val	Pro	Leu	Gln
1				5					10					15

<210> 3908

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3908

Ala	Ile	Lys	Val	Leu	Arg	Glu	Asn	Thr	Ser	Pro	Lys	Ala	Asn	Lys
1				5					10					15

<210> 3909

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3909

Ala	Arg	Leu	Leu	Asp	Ile	Asp	Glu	Thr	Glu	Tyr	His	Ala	Asp	Gly
1				5					10					15

<210> 3910

<211> 15

<212> PRT  
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<220>  
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<400> 3910  
Cys Tyr Gly Leu Gly Met Glu His Leu Arg Glu Val Arg Ala Val  
1 5 10 15

<210> 3911  
<211> 15  
<212> PRT  
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<220>  
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<400> 3911  
Asp Leu Thr Leu Gly Leu Glu Pro Ser Glu Glu Glu Ala Pro Arg  
1 5 10 15

<210> 3912  
<211> 15  
<212> PRT  
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<220>  
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<400> 3912  
Asp Asn Leu Tyr Tyr Trp Asp Gln Asp Pro Pro Glu Arg Gly Ala  
1 5 10 15

<210> 3913  
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<212> PRT  
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<220>  
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<400> 3913  
Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn Asn Gln Leu  
1 5 10 15

<210> 3914  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 3914  
Glu Thr Glu Tyr His Ala Asp Gly Gly Lys Val Pro Ile Lys Trp  
1 5 10 15



<210> 3915  
<211> 15  
<212> PRT  
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<220>  
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<400> 3915  
Phe Arg Glu Leu Val Ser Glu Phe Ser Arg Met Ala Arg Asp Pro  
1 5 10 15

<210> 3916  
<211> 15  
<212> PRT  
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<220>  
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<400> 3916  
Phe Ser Arg Met Ala Arg Asp Pro Gln Arg Phe Val Val Ile Gln  
1 5 10 15

<210> 3917  
<211> 15  
<212> PRT  
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<220>  
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<400> 3917  
Phe Val Val Ile Gln Asn Glu Asp Leu Gly Pro Ala Ser Pro Leu  
1 5 10 15

<210> 3918  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 3918  
Gly Asp Leu Val Asp Ala Glu Glu Tyr Leu Val Pro Gln Gln Gly  
1 5 10 15

<210> 3919  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 3919  
Gly Thr Gln Leu Phe Glu Asp Asn Tyr Ala Leu Ala Val Leu Asp

1 5 10 15

<210> 3920  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 3920  
Ile Lys Trp Met Ala Leu Glu Ser Ile Leu Arg Arg Arg Phe Thr  
1 5 10 15

<210> 3921  
<211> 15  
<212> PRT  
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<220>  
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<400> 3921  
Ile Trp Lys Phe Pro Asp Glu Glu Gly Ala Cys Gln Pro Cys Pro  
1 5 10 15

<210> 3922  
<211> 15  
<212> PRT  
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<220>  
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<400> 3922  
Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys Ala Ala  
1 5 10 15

<210> 3923  
<211> 15  
<212> PRT  
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<220>  
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<400> 3923  
Lys Asn Gly Val Val Lys Asp Val Phe Ala Phe Gly Gly Ala Val  
1 5 10 15

<210> 3924  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 3924

Leu Gln Gly Leu Pro Arg Glu Tyr Val Asn Ala Arg His Cys Leu  
1 5 10 15

<210> 3925

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3925

Leu Gln Arg Tyr Ser Glu Asp Pro Thr Val Pro Leu Pro Ser Glu  
1 5 10 15

<210> 3926

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3926

Leu Val Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro  
1 5 10 15

<210> 3927

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3927

Met Arg Arg Leu Leu Gln Glu Thr Glu Leu Val Glu Pro Leu Thr  
1 5 10 15

<210> 3928

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3928

Asn Lys Glu Ile Leu Asp Glu Ala Tyr Val Met Ala Gly Val Gly  
1 5 10 15

<210> 3929

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3929

Asn	Gln	Glu	Val	Thr	Ala	Glu	Asp	Gly	Thr	Gln	Arg	Cys	Glu	Lys
1				5				10					15	

<210> 3930

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<212> PRT

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<400> 3930

Pro	Glu	Ser	Phe	Asp	Gly	Asp	Pro	Ala	Ser	Asn	Thr	Ala	Pro	Leu
1				5				10					15	

<210> 3931

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3931

Pro	Ser	Gly	Val	Lys	Pro	Asp	Leu	Ser	Tyr	Met	Pro	Ile	Trp	Lys
1				5				10					15	

<210> 3932

<211> 15

<212> PRT

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<220>

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<400> 3932

Gln	Gly	Phe	Phe	Cys	Pro	Asp	Pro	Ala	Pro	Gly	Ala	Gly	Gly	Met
1				5				10					15	

<210> 3933

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3933

Gln	Met	Arg	Ile	Leu	Lys	Glu	Thr	Glu	Leu	Arg	Lys	Val	Lys	Val
1				5				10					15	

<210> 3934

<211> 15

<212> PRT  
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<220>  
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<400> 3934  
Arg Ser Leu Leu Glu Asp Asp Asp Met Gly Asp Leu Val Asp Ala  
1 5 10 15

<210> 3935  
<211> 15  
<212> PRT  
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<220>  
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<400> 3935  
Ser Asp Val Phe Asp Gly Asp Leu Gly Met Gly Ala Ala Lys Gly  
1 5 10 15

<210> 3936  
<211> 15  
<212> PRT  
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<220>  
<223> Artificially Synthesized Peptide

<400> 3936  
Ser Leu Ala Phe Leu Pro Glu Ser Phe Asp Gly Asp Pro Ala Ser  
1 5 10 15

<210> 3937  
<211> 15  
<212> PRT  
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<220>  
<223> Artificially Synthesized Peptide

<400> 3937  
Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val Gln Gly Tyr Val  
1 5 10 15

<210> 3938  
<211> 15  
<212> PRT  
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<220>  
<223> Artificially Synthesized Peptide

<400> 3938  
Thr Ala Pro Leu Gln Pro Glu Gln Leu Gln Val Phe Glu Thr Leu  
1 5 10 15

<210> 3939  
<211> 15  
<212> PRT  
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<220>  
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<400> 3939  
Thr Val Pro Leu Pro Ser Glu Thr Asp Gly Tyr Val Ala Pro Leu  
1 5 10 15

<210> 3940  
<211> 15  
<212> PRT  
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<220>  
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<400> 3940  
Val His Thr Val Pro Trp Asp Gln Leu Phe Arg Asn Pro His Gln  
1 5 10 15

<210> 3941  
<211> 15  
<212> PRT  
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<220>  
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<400> 3941  
Val Arg Leu Val His Arg Asp Leu Ala Ala Arg Asn Val Leu Val  
1 5 10 15

<210> 3942  
<211> 15  
<212> PRT  
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<220>  
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<400> 3942  
Val Thr Cys Phe Gly Pro Glu Ala Asp Gln Cys Val Ala Cys Ala  
1 5 10 15

<210> 3943  
<211> 15  
<212> PRT  
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<220>  
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<400> 3943  
Tyr Asn Tyr Leu Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys

1 5 10 15

<210> 3944

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3944

Tyr Arg Ser Leu Leu Glu Asp Asp Asp Met Gly Asp Leu Val Asp  
1 5 10 15

<210> 3945

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3945

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<210> 4073

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<210> 4081  
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<210> 4089

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<210> 4091

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<210> 4092

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<210> 4094  
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<210> 4096  
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<210> 4097  
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<210> 4099  
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<210> 4101  
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<210> 4102  
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<210> 4109  
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<210> 4110  
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<400> 4110  
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<210> 4111  
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<210> 4112  
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<210> 4120  
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<210> 4125  
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<210> 4126  
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<212> PRT  
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<210> 4127  
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<400> 4145  
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<210> 4146  
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<400> 4146  
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<400> 4148  
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<400> 4149  
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<400> 4150  
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<400> 4151  
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<400> 4152  
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<400> 4153  
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<400> 4183  
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<400> 4188

Tyr Leu Glu Pro Ala Ile Ala Lys Tyr  
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Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val  
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Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val  
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Tyr Val Ile Lys Val Ser Ala Arg Val  
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Lys Val Phe Pro Tyr Ala Leu Ile Asn Lys  
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<400> 4197

Ala Val Asp Leu Tyr His Phe Leu Lys  
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<210> 4198

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<400> 4198  
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<210> 4199  
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<400> 4212

Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
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Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
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<211> 15

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Gln	Tyr	Ile	Lys	Ala	Asn	Ala	Lys	Phe	Ile	Gly	Ile	Thr	Glu
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<211> 24

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<400> 4219

Gly	Arg	Thr	Gln	Asp	Glu	Asn	Pro	Val	Val	His	Phe	Phe	Lys	Asn	Ile
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Val	Thr	Pro	Arg	Thr	Pro	Pro	Pro								
				20											

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Asn	Gly	Gln	Ile	Gly	Asn	Asp	Pro	Asn	Arg	Asp	Ile	Leu
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<211> 14

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<400> 4221

Tyr	Ala	Arg	Phe	Gln	Ser	Gln	Thr	Thr	Leu	Lys	Gln	Lys	Thr
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<400> 4222  
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<400> 4223  
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Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe  
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Asn Val Val Asn Ser  
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<400> 4225  
Gly Ala Val Asp Ser Ile Leu Gly Gly Val Ala Thr Tyr Gly Ala Ala  
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<223> Xaa = D-Alanine or L-Alanine

<221> VARIANT  
<222> 3  
<223> Xaa = cyclohexylalanine, phenylalanine, or  
tyrosine

<221> VARIANT  
<222> (13)..(13)  
<223> Xaa = D-Alanine or L-Alanine

<400> 4226  
Xaa Lys Xaa Val Trp Ala Asn Thr Leu Lys Ala Ala Xaa  
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<210> 4227  
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<220>  
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Ala Leu Cys Arg Trp Gly Leu Leu Leu  
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<400> 4230

Val Leu Ile Gln Arg Asn Pro Gln Leu  
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Val Leu Ile Gln Arg Asn Pro Gln Val  
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Lys Ile Phe Gly Ser Leu Ala Phe Leu  
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Lys Val Phe Gly Ser Leu Ala Phe Val  
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Lys Thr Phe Gly Ser Leu Ala Phe Val  
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Lys Leu Phe Gly Ser Leu Ala Phe Val  
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<400> 4240  
Val Leu Leu Gly Val Val Phe Gly Val  
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<210> 4241  
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<400> 4241  
Tyr Met Ile Met Val Lys Cys Trp Met Ile  
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Tyr Leu Ile Met Val Lys Asx Trp Met Val  
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<400> 4244  
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<400> 4245

Glu Thr His Leu Asp Met Leu Arg His Leu Tyr  
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<211> 11

<212> PRT

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<400> 4246

Ala Ser Cys Val Thr Ala Cys Pro Tyr Asn Tyr  
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<211> 11

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<400> 4247

Glu Thr Leu Glu Glu Ile Thr Gly Tyr Leu Tyr  
1 5 10

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<212> PRT

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Glu Ala Asp Gln Cys Val Ala Cys Ala His Tyr  
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<400> 4249

His Thr Asp Met Leu Arg His Leu Tyr  
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Gly Thr Asp Leu Phe Glu Asp Asn Tyr  
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Ala Thr Cys Val Thr Ala Cys Pro Tyr  
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<210> 4252

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<400> 4252

Glu Thr Asp Glu Glu Ile Thr Gly Tyr  
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<400> 4253

Val Met Asp Gly Val Gly Ser Pro Tyr  
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<210> 4254

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Leu Thr Asp Ile Asp Glu Thr Glu Tyr  
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<210> 4255

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<400> 4255

Ala Thr Pro Leu Asp Ser Thr Phe Tyr  
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<400> 4256

Leu Thr Asp Ser Pro Gln Pro Glu Tyr  
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<210> 4257

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<400> 4257

Phe Thr Pro Ala Phe Asp Asn Leu Tyr  
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<400> 4258

Ser Pro Asp Phe Asp Asn Leu Tyr Tyr  
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<210> 4259

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<210> 4260  
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Pro Thr Asp Cys Cys His Glu Gln Cys Tyr  
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<210> 4261  
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<210> 4262  
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<400> 4262  
Glu Thr Met Pro Asn Pro Glu Gly Arg Tyr  
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<400> 4375

Ser Gly Pro Ser Asn Thr Tyr Pro Glu Ile  
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<210> 4376

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4376

Arg Gly Tyr Val Phe Gln Gly Leu  
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<210> 4377

<211> 10

<212> PRT

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<220>

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<400> 4377

Arg Gly Pro Tyr Arg Ala Phe Val Thr Ile  
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<210> 4378

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4378

Lys Phe Asn Pro Met Lys Thr Tyr Ile  
1 5

<210> 4379

<211> 12

<212> PRT  
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<220>  
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<400> 4379  
Ile Pro Gln Ser Leu Asp Ser Tyr Trp Thr Ser Leu  
1 5 10

<210> 4380  
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<400> 4380  
Tyr Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr  
1 5 10

<210> 4381  
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<220>  
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<400> 4381  
Val Val His Phe Phe Lys Asn Ile Val Thr Pro Arg Thr Pro Pro Tyr  
1 5 10 15

<210> 4382  
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<400> 4382  
Tyr Ala Ala Phe Ala Ala Ala Lys Thr Ala Ala Ala Phe Ala  
1 5 10

<210> 4383  
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<400> 4383  
Tyr Lys Thr Ile Ala Phe Asp Glu Glu Ala Arg Arg  
1 5 10

<210> 4384  
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1 5 10

<210> 4385  
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Tyr Ala Arg Phe Gln Arg Gln Thr Thr Leu Lys Ala Ala Ala  
1 5 10

<210> 4386  
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1 5 10

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<400> 4387  
Tyr Ala Arg Phe Gln Ser Gln Thr Thr Leu Lys Gln Lys Thr  
1 5 10

<210> 4388  
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<400> 4388  
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu

1 5 10

<210> 4389  
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<220>  
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<400> 4389  
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
1 5 10

<210> 4390  
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<400> 4390  
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
1 5 10

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<400> 4391  
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
1 5 10

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<400> 4392  
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
1 5 10

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<400> 4393

Glu Ala Leu Ile His Gln Leu Lys Ile Asn Pro Tyr Val Leu Ser  
1 5 10 15

<210> 4394

<211> 14

<212> PRT

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<400> 4394

Gln Tyr Ile Lys Ala Asn Ala Lys Phe Ile Gly Ile Thr Glu  
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<210> 4395

<211> 14

<212> PRT

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<220>

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<400> 4395

Gln Tyr Ile Lys Ala Asn Ala Lys Phe Ile Gly Ile Thr Glu  
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<210> 4396

<211> 13

<212> PRT

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<400> 4396

Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr  
1 5 10

<210> 4397

<211> 13

<212> PRT

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<220>

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<400> 4397

Asn Gly Gln Ile Gly Asn Asp Pro Asn Arg Asp Ile Leu  
1 5 10

<210> 4398

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4398

Tyr	Ala	Arg	Phe	Gln	Ser	Gln	Thr	Thr	Leu	Lys	Gln	Lys	Thr
1				5					10				

<210> 4399

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4399

Tyr	Ala	His	Ala	Ala	His	Ala	Ala	His	Ala	Ala	His	Ala	Ala	His	Ala
1				5				10				15			

Ala

<210> 4400

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4400

Tyr	Ala	His	Ala	Ala	His	Ala	Ala	His	Ala	Ala	His	Ala	Ala	His	Ala
1				5				10				15			

Ala

<210> 4401

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4401

Tyr	Ala	His	Ala	Ala	His	Ala	Ala	His	Ala	Ala	His	Ala	Ala	His	Ala
1				5				10				15			

Ala

<210> 4402

<211> 17

<212> PRT

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<220>

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<400> 4402

Tyr Asn Thr Asp Gly Ser Thr Asp Tyr Gly Ile Leu Gln Ile Asn Ser  
1 5 10 15  
Arg

<210> 4403  
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<212> PRT  
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<220>  
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<400> 4403  
Tyr Ala His Ala Ala His Ala Ala His Ala Ala His Ala Ala His Ala  
1 5 10 15  
Ala

<210> 4404  
<211> 17  
<212> PRT  
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<220>  
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<400> 4404  
Tyr Ala His Ala Ala His Ala Ala His Ala Ala His Ala Ala His Ala  
1 5 10 15  
Ala

<210> 4405  
<211> 16  
<212> PRT  
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<220>  
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<400> 4405  
Tyr Leu Glu Asp Ala Arg Arg Lys Lys Ala Ile Tyr Glu Lys Lys Lys  
1 5 10 15

<210> 4406  
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<212> PRT  
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<220>  
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<400> 4406  
Tyr Leu Glu Asp Ala Arg Arg Lys Lys Ala Ile Tyr Glu Lys Lys Lys  
1 5 10 15

<210> 4407  
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<212> PRT  
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<220>  
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<400> 4407  
Ala Leu Cys Arg Trp Gly Leu Leu Leu  
1 5

<210> 4408  
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<212> PRT  
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<220>  
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<400> 4408  
Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala  
1 5 10

<210> 4409  
<211> 9  
<212> PRT  
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<220>  
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<400> 4409  
His Leu Tyr Gln Gly Cys Gln Val Val  
1 5

<210> 4410  
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<212> PRT  
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<220>  
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<400> 4410  
Gln Leu Phe Glu Asp Asn Tyr Ala Leu  
1 5

<210> 4411  
<211> 10  
<212> PRT  
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<220>  
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<400> 4411  
Gln Leu Phe Glu Asp Asn Tyr Ala Leu Ala



1 5 10

<210> 4412  
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<212> PRT  
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<400> 4412  
Ser Leu Thr Glu Ile Leu Lys Gly Gly Val  
1 5 10

<210> 4413  
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<220>  
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<400> 4413  
Val Leu Ile Gln Arg Asn Pro Gln Leu  
1 5

<210> 4414  
<211> 9  
<212> PRT  
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<220>  
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<400> 4414  
Lys Ile Phe Gly Ser Leu Ala Phe Leu  
1 5

<210> 4415  
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<400> 4415  
Ile Leu His Asn Gly Ala Tyr Ser Leu  
1 5

<210> 4416  
<211> 9  
<212> PRT  
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<220>  
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<400> 4416  
Ala Leu Ile His His Asn Thr His Leu  
1 5

<210> 4417  
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<212> PRT  
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<220>  
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<400> 4417  
Gly Leu Ala Cys His Gln Leu Cys Ala  
1 5

<210> 4418  
<211> 9  
<212> PRT  
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<220>  
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<400> 4418  
Ser Ile Ile Ser Ala Val Val Gly Ile  
1 5

<210> 4419  
<211> 9  
<212> PRT  
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<220>  
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<400> 4419  
Val Val Leu Gly Val Val Phe Gly Ile  
1 5

<210> 4420  
<211> 9  
<212> PRT  
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<220>  
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<400> 4420  
Arg Leu Leu Gln Glu Thr Glu Leu Val  
1 5

<210> 4421  
<211> 9  
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<220>

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<400> 4421

Ile Leu Asp Glu Ala Tyr Val Met Ala  
1 5

<210> 4422

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4422

Val Met Ala Gly Val Gly Ser Pro Tyr Val  
1 5 10

<210> 4423

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4423

Cys Leu Thr Ser Thr Val Gln Leu Val  
1 5

<210> 4424

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 4424

Gln Leu Met Pro Tyr Gly Cys Leu Leu  
1 5

<210> 4425

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 4425

Tyr Met Ile Met Val Lys Cys Trp Met Ile  
1 5 10

<210> 4426

<211> 9

<212> PRT  
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<220>  
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<400> 4426  
Tyr Met Ile Met Val Lys Cys Trp Met  
1 5

<210> 4427  
<211> 9  
<212> PRT  
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<400> 4427  
Ala Leu Cys Arg Trp Gly Leu Leu Leu  
1 5

<210> 4428  
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<212> PRT  
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<220>  
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<400> 4428  
His Leu Tyr Gln Gly Cys Gln Val Val  
1 5

<210> 4429  
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<400> 4429  
Gln Leu Phe Glu Asp Asn Tyr Ala Leu  
1 5

<210> 4430  
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<400> 4430  
Gln Leu Phe Glu Asp Asn Tyr Ala Leu Ala  
1 5 10

<210> 4431  
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<400> 4431  
Lys Ile Phe Gly Ser Leu Ala Phe Leu  
1 5

<210> 4432  
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<400> 4432  
Ile Leu His Asn Gly Ala Tyr Ser Leu  
1 5

<210> 4433  
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<400> 4433  
Ser Ile Ile Ser Ala Val Val Gly Ile  
1 5

<210> 4434  
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<400> 4434  
Val Val Leu Gly Val Val Phe Gly Ile  
1 5

<210> 4435  
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<400> 4435  
Val Met Ala Gly Val Gly Ser Pro Tyr Val

1 5 10

<210> 4436  
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<400> 4436  
Cys Leu Thr Ser Thr Val Gln Leu Val  
1 5

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<220>  
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<400> 4437  
Tyr Met Ile Met Val Lys Cys Trp Met Ile  
1 5 10

<210> 4438  
<211> 9  
<212> PRT  
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<220>  
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<400> 4438  
Ala Leu Cys Arg Trp Gly Leu Leu Leu  
1 5

<210> 4439  
<211> 9  
<212> PRT  
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<220>  
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<400> 4439  
Ala Leu Asx Arg Trp Gly Leu Leu Val  
1 5

<210> 4440  
<211> 9  
<212> PRT  
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<220>  
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<400> 4440  
Ala Met Cys Arg Trp Gly Leu Leu Val  
1 5

<210> 4441  
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<212> PRT  
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<220>  
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<400> 4441  
Lys Ile Phe Gly Ser Leu Ala Phe Leu  
1 5

<210> 4442  
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<212> PRT  
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<220>  
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<400> 4442  
Lys Leu Phe Gly Ser Leu Ala Phe Val  
1 5

<210> 4443  
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<400> 4443  
Lys Val Phe Gly Ser Leu Ala Phe Val  
1 5

<210> 4444  
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<220>  
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<400> 4444  
Lys Thr Phe Gly Ser Leu Ala Phe Val  
1 5

<210> 4445  
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<212> PRT  
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<220>

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<400> 4445

Val Val Leu Gly Val Val Phe Gly Ile  
1 5

<210> 4446

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4446

Val Leu Leu Gly Val Val Phe Gly Val  
1 5

<210> 4447

<211> 10

<212> PRT

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<220>

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<400> 4447

Tyr Met Ile Met Val Lys Cys Trp Met Ile  
1 5 10

<210> 4448

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4448

Tyr Leu Ile Met Val Lys Asx Trp Met Val  
1 5 10

<210> 4449

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 4449

Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu Pro Pro Gly Ala  
1 5 10 15

<210> 4450

<211> 15



<212> PRT  
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<220>  
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<400> 4450  
Arg Trp Gly Leu Leu Leu Ala Leu Leu Pro Pro Gly Ala Ala Ser  
1 5 10 15

<210> 4451  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 4451  
Trp Gly Leu Leu Leu Ala Leu Leu Pro Pro Gly Ala Ala Ser Thr  
1 5 10 15

<210> 4452  
<211> 15  
<212> PRT  
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<220>  
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<400> 4452  
Gly Thr Asp Met Lys Leu Arg Leu Pro Ala Ser Pro Glu Thr His  
1 5 10 15

<210> 4453  
<211> 15  
<212> PRT  
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<220>  
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<400> 4453  
Asp Met Lys Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp  
1 5 10 15

<210> 4454  
<211> 15  
<212> PRT  
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<220>  
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<400> 4454  
Asn Leu Glu Leu Thr Tyr Leu Pro Thr Asn Ala Ser Leu Ser Phe  
1 5 10 15

<210> 4455  
<211> 15  
<212> PRT  
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<220>  
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<400> 4455  
Leu Thr Tyr Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp  
1 5 10 15

<210> 4456  
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<212> PRT  
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<220>  
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<400> 4456  
Thr Gln Leu Phe Glu Asp Asn Tyr Ala Leu Ala Val Leu Asp Asn  
1 5 10 15

<210> 4457  
<211> 15  
<212> PRT  
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<220>  
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<400> 4457  
Val Cys Pro Leu His Asn Gln Glu Val Thr Ala Glu Asp Gly Thr  
1 5 10 15

<210> 4458  
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<212> PRT  
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<220>  
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<400> 4458  
Cys Lys Lys Ile Phe Gly Ser Leu Ala Phe Leu Pro Glu Ser Phe  
1 5 10 15

<210> 4459  
<211> 15  
<212> PRT  
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<220>  
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<400> 4459  
Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg Gly Arg Ile Leu

1 5 10 15

<210> 4460  
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 <212> PRT  
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<220>  
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<400> 4460  
 Leu Arg Glu Leu Gly Ser Gly Leu Ala Leu Ile His His Asn Thr  
 1 5 10 15

<210> 4461  
 <211> 15  
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<220>  
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<400> 4461  
 Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp Lys Phe Pro Asp Glu  
 1 5 10 15

<210> 4462  
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<220>  
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<400> 4462  
 Ala Ser Pro Leu Thr Ser Ile Ile Ser Ala Val Val Gly Ile Leu  
 1 5 10 15

<210> 4463  
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<400> 4463  
 Leu Thr Ser Ile Ile Ser Ala Val Val Gly Ile Leu Leu Val Val  
 1 5 10 15

<210> 4464  
 <211> 15  
 <212> PRT  
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<220>  
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<400> 4464  
Val Val Gly Ile Leu Leu Val Val Val Leu Gly Val Val Phe Gly  
1 5 10 15

<210> 4465  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 4465  
Leu Leu Val Val Val Leu Gly Val Val Phe Gly Ile Leu Ile Lys  
1 5 10 15

<210> 4466  
<211> 15  
<212> PRT  
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<400> 4466  
Val Leu Gly Val Val Phe Gly Ile Leu Ile Lys Arg Arg Gln Gln  
1 5 10 15

<210> 4467  
<211> 15  
<212> PRT  
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<220>  
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<400> 4467  
Glu Thr Glu Leu Val Glu Pro Leu Thr Pro Ser Gly Ala Met Pro  
1 5 10 15

<210> 4468  
<211> 15  
<212> PRT  
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<220>  
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<400> 4468  
Val Glu Pro Leu Thr Pro Ser Gly Ala Met Pro Asn Gln Ala Gln  
1 5 10 15

<210> 4469  
<211> 15  
<212> PRT  
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<220>

<223> Artificial Peptide

<400> 4469

Glu	Thr	Glu	Leu	Arg	Lys	Val	Lys	Val	Leu	Gly	Ser	Gly	Ala	Phe
1				5					10					15

<210> 4470

<211> 15

<212> PRT

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<220>

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<400> 4470

Gly	Glu	Asn	Val	Lys	Ile	Pro	Val	Ala	Ile	Lys	Val	Leu	Arg	Glu
1				5					10					15

<210> 4471

<211> 15

<212> PRT

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<220>

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<400> 4471

Ile	Lys	Val	Leu	Arg	Glu	Asn	Thr	Ser	Pro	Lys	Ala	Asn	Lys	Glu
1				5					10					15

<210> 4472

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4472

Lys	Glu	Ile	Leu	Asp	Glu	Ala	Tyr	Val	Met	Ala	Gly	Val	Gly	Ser
1				5					10					15

<210> 4473

<211> 15

<212> PRT

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<220>

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<400> 4473

Asp	Glu	Ala	Tyr	Val	Met	Ala	Gly	Val	Gly	Ser	Pro	Tyr	Val	Ser
1				5					10					15

<210> 4474

<211> 15

<212> PRT  
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<220>  
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<400> 4474  
Ser Arg Leu Leu Gly Ile Cys Leu Thr Ser Thr Val Gln Leu Val  
1 5 10 15

<210> 4475  
<211> 15  
<212> PRT  
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<220>  
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<400> 4475  
Thr Val Gln Leu Val Thr Gln Leu Met Pro Tyr Gly Cys Leu Leu  
1 5 10 15

<210> 4476  
<211> 15  
<212> PRT  
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<220>  
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<400> 4476  
Leu Leu Asn Trp Cys Met Gln Ile Ala Lys Gly Met Ser Tyr Leu  
1 5 10 15

<210> 4477  
<211> 15  
<212> PRT  
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<220>  
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<400> 4477  
Ile Thr Asp Phe Gly Leu Ala Arg Leu Leu Asp Ile Asp Glu Thr  
1 5 10 15

<210> 4478  
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<400> 4478  
Lys Val Pro Ile Lys Trp Met Ala Leu Glu Ser Ile Leu Arg Arg  
1 5 10 15

<210> 4479  
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<400> 4479  
Pro Ile Lys Trp Met Ala Leu Glu Ser Ile Leu Arg Arg Arg Phe  
1 5 10 15

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<400> 4480  
Ile Lys Trp Met Ala Leu Glu Ser Ile Leu Arg Arg Arg Phe Thr  
1 5 10 15

<210> 4481  
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<400> 4481  
Gly Val Thr Val Trp Glu Leu Met Thr Phe Gly Ala Lys Pro Tyr  
1 5 10 15

<210> 4482  
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<400> 4482  
Val Trp Glu Leu Met Thr Phe Gly Ala Lys Pro Tyr Asp Gly Ile  
1 5 10 15

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<400> 4483  
Gly Glu Arg Leu Pro Gln Pro Pro Ile Cys Thr Ile Asp Val Tyr

1 5 10 15

<210> 4484  
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<400> 4484  
Gln Pro Pro Ile Cys Thr Ile Asp Val Tyr Met Ile Met Val Lys  
1 5 10 15

<210> 4485  
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<400> 4485  
Asp Val Tyr Met Ile Met Val Lys Cys Trp Met Ile Asp Ser Glu  
1 5 10 15

<210> 4486  
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<400> 4486  
Gln Gly Phe Phe Cys Pro Asp Pro Ala Pro Gly Ala Gly Gly Met  
1 5 10 15

<210> 4487  
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<400> 4487  
Thr Asp Gly Tyr Val Ala Pro Leu Thr Cys Ser Pro Gln Pro Glu  
1 5 10 15

<210> 4488  
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<400> 4488

Gln Pro Asp Val Arg Pro Gln Pro Pro Ser Pro Arg Glu Gly Pro  
1 5 10 15

<210> 4489

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 4489

Pro Ser Thr Phe Lys Gly Thr Pro Thr Ala Glu Asn Pro Glu Tyr  
1 5 10 15

<210> 4490

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 4490

Arg Trp Gly Leu Leu Leu Ala Leu Leu Pro Pro Gly Ala Ala Ser  
1 5 10 15

<210> 4491

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 4491

Trp Gly Leu Leu Leu Ala Leu Leu Pro Pro Gly Ala Ala Ser Thr  
1 5 10 15

<210> 4492

<211> 15

<212> PRT

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<220>

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<400> 4492

Asn Leu Glu Leu Thr Tyr Leu Pro Thr Asn Ala Ser Leu Ser Phe  
1 5 10 15

<210> 4493

<211> 15

<212> PRT

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<220>

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<400> 4493

Leu	Thr	Tyr	Leu	Pro	Thr	Asn	Ala	Ser	Leu	Ser	Phe	Leu	Gln	Asp
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<210> 4494

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<400> 4494

Cys	Lys	Lys	Ile	Phe	Gly	Ser	Leu	Ala	Phe	Leu	Pro	Glu	Ser	Phe
1				5					10					15

<210> 4495

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 4495

Leu	Ser	Val	Phe	Gln	Asn	Leu	Gln	Val	Ile	Arg	Gly	Arg	Ile	Leu
1				5					10					15

<210> 4496

<211> 15

<212> PRT

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<220>

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<400> 4496

Ala	Ser	Pro	Leu	Thr	Ser	Ile	Ile	Ser	Ala	Val	Val	Gly	Ile	Leu
1				5					10					15

<210> 4497

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 4497

Val	Leu	Gly	Val	Val	Phe	Gly	Ile	Leu	Ile	Lys	Arg	Arg	Gln	Gln
1				5					10					15

<210> 4498

<211> 15

<212> PRT  
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<220>  
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<400> 4498  
Glu Thr Glu Leu Arg Lys Val Lys Val Leu Gly Ser Gly Ala Phe  
1 5 10 15

<210> 4499  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 4499  
Gly Glu Asn Val Lys Ile Pro Val Ala Ile Lys Val Leu Arg Glu  
1 5 10 15

<210> 4500  
<211> 15  
<212> PRT  
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<220>  
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<400> 4500  
Asp Glu Ala Tyr Val Met Ala Gly Val Gly Ser Pro Tyr Val Ser  
1 5 10 15

<210> 4501  
<211> 15  
<212> PRT  
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<220>  
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<400> 4501  
Ser Arg Leu Leu Gly Ile Cys Leu Thr Ser Thr Val Gln Leu Val  
1 5 10 15

<210> 4502  
<211> 15  
<212> PRT  
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<220>  
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<400> 4502  
Thr Val Gln Leu Val Thr Gln Leu Met Pro Tyr Gly Cys Leu Leu  
1 5 10 15

<210> 4503  
<211> 15  
<212> PRT  
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<220>  
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<400> 4503  
Leu Leu Asn Trp Cys Met Gln Ile Ala Lys Gly Met Ser Tyr Leu  
1 5 10 15

<210> 4504  
<211> 15  
<212> PRT  
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<220>  
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<400> 4504  
Lys Val Pro Ile Lys Trp Met Ala Leu Glu Ser Ile Leu Arg Arg  
1 5 10 15

<210> 4505  
<211> 15  
<212> PRT  
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<220>  
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<400> 4505  
Val Trp Glu Leu Met Thr Phe Gly Ala Lys Pro Tyr Asp Gly Ile  
1 5 10 15

<210> 4506  
<211> 15  
<212> PRT  
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<220>  
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<400> 4506  
Gln Pro Pro Ile Cys Thr Ile Asp Val Tyr Met Ile Met Val Lys  
1 5 10 15

<210> 4507  
<211> 15  
<212> PRT  
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<220>  
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<400> 4507  
Asp Val Tyr Met Ile Met Val Lys Cys Trp Met Ile Asp Ser Glu

1 5 10 15

<210> 4508  
<211> 15  
<212> PRT  
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<220>  
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<400> 4508  
Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met Leu Arg His  
1 5 10 15

<210> 4509  
<211> 15  
<212> PRT  
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<220>  
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<400> 4509  
Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val Gln Gly Tyr Val  
1 5 10 15

<210> 4510  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 4510  
Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu Gln Arg  
1 5 10 15

<210> 4511  
<211> 15  
<212> PRT  
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<220>  
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<400> 4511  
Gly Thr Gln Leu Phe Glu Asp Asn Tyr Ala Leu Ala Val Leu Asp  
1 5 10 15

<210> 4512  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 4512

Asp	Thr	Ile	Leu	Trp	Lys	Asp	Ile	Phe	His	Lys	Asn	Asn	Gln	Leu
1				5					10					15

<210> 4513

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4513

Ala	Leu	Thr	Leu	Ile	Asp	Thr	Asn	Arg	Ser	Arg	Ala	Cys	His	Pro
1				5					10					15

<210> 4514

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4514

Lys	Gly	Pro	Leu	Pro	Thr	Asp	Cys	Cys	His	Glu	Gln	Cys	Ala	Ala
1				5					10					15

<210> 4515

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 4515

Leu	Val	Thr	Tyr	Asn	Thr	Asp	Thr	Phe	Glu	Ser	Met	Pro	Asn	Pro
1				5					10					15

<210> 4516

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 4516

Tyr	Asn	Tyr	Leu	Ser	Thr	Asp	Val	Gly	Ser	Cys	Thr	Leu	Val	Cys
1				5					10					15

<210> 4517

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 4517

Asn	Gln	Glu	Val	Thr	Ala	Glu	Asp	Gly	Thr	Gln	Arg	Cys	Glu	Lys
1				5					10					15

<210> 4518

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 4518

Cys	Tyr	Gly	Leu	Gly	Met	Glu	His	Leu	Arg	Glu	Val	Arg	Ala	Val
1				5					10					15

<210> 4519

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4519

Ser	Leu	Ala	Phe	Leu	Pro	Glu	Ser	Phe	Asp	Gly	Asp	Pro	Ala	Ser
1				5					10					15

<210> 4520

<211> 15

<212> PRT

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<400> 4520

Pro	Glu	Ser	Phe	Asp	Gly	Asp	Pro	Ala	Ser	Asn	Thr	Ala	Pro	Leu
1				5					10					15

<210> 4521

<211> 15

<212> PRT

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<220>

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<400> 4521

Thr	Ala	Pro	Leu	Gln	Pro	Glu	Gln	Leu	Gln	Val	Phe	Glu	Thr	Leu
1				5					10					15

<210> 4522

<211> 15

<212> PRT  
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<220>  
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<400> 4522  
Leu Ala Leu Ile His His Asn Thr His Leu Cys Phe Val His Thr  
1 5 10 15

<210> 4523  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 4523  
Val His Thr Val Pro Trp Asp Gln Leu Phe Arg Asn Pro His Gln  
1 5 10 15

<210> 4524  
<211> 15  
<212> PRT  
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<220>  
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<400> 4524  
Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr  
1 5 10 15

<210> 4525  
<211> 15  
<212> PRT  
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<220>  
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<400> 4525  
Leu Gln Gly Leu Pro Arg Glu Tyr Val Asn Ala Arg His Cys Leu  
1 5 10 15

<210> 4526  
<211> 15  
<212> PRT  
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<220>  
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<400> 4526  
Val Thr Cys Phe Gly Pro Glu Ala Asp Gln Cys Val Ala Cys Ala  
1 5 10 15



<210> 4527  
<211> 15  
<212> PRT  
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<220>  
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<400> 4527  
Pro Ser Gly Val Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp Lys  
1 5 10 15

<210> 4528  
<211> 15  
<212> PRT  
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<220>  
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<400> 4528  
Ile Trp Lys Phe Pro Asp Glu Glu Gly Ala Cys Gln Pro Cys Pro  
1 5 10 15

<210> 4529  
<211> 15  
<212> PRT  
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<220>  
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<400> 4529  
His Ser Cys Val Asp Leu Asp Asp Lys Gly Cys Pro Ala Glu Gln  
1 5 10 15

<210> 4530  
<211> 15  
<212> PRT  
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<220>  
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<400> 4530  
Met Arg Arg Leu Leu Gln Glu Thr Glu Leu Val Glu Pro Leu Thr  
1 5 10 15

<210> 4531  
<211> 15  
<212> PRT  
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<220>  
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<400> 4531  
Gln Met Arg Ile Leu Lys Glu Thr Glu Leu Arg Lys Val Lys Val

1 5 10 15

<210> 4532  
<211> 15  
<212> PRT  
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<220>  
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<400> 4532  
Ala Ile Lys Val Leu Arg Glu Asn Thr Ser Pro Lys Ala Asn Lys  
1 5 10 15

<210> 4533  
<211> 15  
<212> PRT  
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<220>  
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<400> 4533  
Asn Lys Glu Ile Leu Asp Glu Ala Tyr Val Met Ala Gly Val Gly  
1 5 10 15

<210> 4534  
<211> 15  
<212> PRT  
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<220>  
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<400> 4534  
Gly Met Ser Tyr Leu Glu Asp Val Arg Leu Val His Arg Asp Leu  
1 5 10 15

<210> 4535  
<211> 15  
<212> PRT  
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<220>  
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<400> 4535  
Val Arg Leu Val His Arg Asp Leu Ala Ala Arg Asn Val Leu Val  
1 5 10 15

<210> 4536  
<211> 15  
<212> PRT  
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<220>  
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<400> 4536

Ala	Arg	Leu	Leu	Asp	Ile	Asp	Glu	Thr	Glu	Tyr	His	Ala	Asp	Gly
1				5					10					15

<210> 4537

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 4537

Glu	Thr	Glu	Tyr	His	Ala	Asp	Gly	Gly	Lys	Val	Pro	Ile	Lys	Trp
1				5					10					15

<210> 4538

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4538

Ile	Lys	Trp	Met	Ala	Leu	Glu	Ser	Ile	Leu	Arg	Arg	Arg	Phe	Thr
1				5					10					15

<210> 4539

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4539

Cys	Trp	Met	Ile	Asp	Ser	Glu	Cys	Arg	Pro	Arg	Phe	Arg	Glu	Leu
1				5					10					15

<210> 4540

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4540

Phe	Arg	Glu	Leu	Val	Ser	Glu	Phe	Ser	Arg	Met	Ala	Arg	Asp	Pro
1				5					10					15

<210> 4541

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 4541

Phe	Ser	Arg	Met	Ala	Arg	Asp	Pro	Gln	Arg	Phe	Val	Val	Ile	Gln
1				5				10						15

<210> 4542

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 4542

Phe	Val	Val	Ile	Gln	Asn	Glu	Asp	Leu	Gly	Pro	Ala	Ser	Pro	Leu
1				5				10						15

<210> 4543

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 4543

Tyr	Arg	Ser	Leu	Leu	Glu	Asp	Asp	Asp	Met	Gly	Asp	Leu	Val	Asp
1				5				10						15

<210> 4544

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 4544

Arg	Ser	Leu	Leu	Glu	Asp	Asp	Asp	Met	Gly	Asp	Leu	Val	Asp	Ala
1				5				10						15

<210> 4545

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 4545

Gly	Asp	Leu	Val	Asp	Ala	Glu	Glu	Tyr	Leu	Val	Pro	Gln	Gln	Gly
1				5				10						15

<210> 4546

<211> 15

<212> PRT  
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<220>  
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<400> 4546  
Gln Gly Phe Phe Cys Pro Asp Pro Ala Pro Gly Ala Gly Gly Met  
1 5 10 15

<210> 4547  
<211> 15  
<212> PRT  
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<220>  
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<400> 4547  
Asp Leu Thr Leu Gly Leu Glu Pro Ser Glu Glu Glu Ala Pro Arg  
1 5 10 15

<210> 4548  
<211> 15  
<212> PRT  
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<220>  
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<400> 4548  
Ser Asp Val Phe Asp Gly Asp Leu Gly Met Gly Ala Ala Lys Gly  
1 5 10 15

<210> 4549  
<211> 15  
<212> PRT  
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<220>  
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<400> 4549  
Leu Gln Arg Tyr Ser Glu Asp Pro Thr Val Pro Leu Pro Ser Glu  
1 5 10 15

<210> 4550  
<211> 15  
<212> PRT  
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<220>  
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<400> 4550  
Thr Val Pro Leu Pro Ser Glu Thr Asp Gly Tyr Val Ala Pro Leu  
1 5 10 15

<210> 4551  
<211> 15  
<212> PRT  
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<220>  
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<400> 4551  
Lys Asn Gly Val Val Lys Asp Val Phe Ala Phe Gly Gly Ala Val  
1 5 10 15

<210> 4552  
<211> 15  
<212> PRT  
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<220>  
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<400> 4552  
Gln Gly Gly Ala Ala Pro Gln Pro His Pro Pro Pro Ala Phe Ser  
1 5 10 15

<210> 4553  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 4553  
Asp Asn Leu Tyr Tyr Trp Asp Gln Asp Pro Pro Glu Arg Gly Ala  
1 5 10 15

<210> 4554  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 4554  
Arg Trp Gly Leu Leu Leu Ala Leu Leu Pro Pro Gly Ala Ala Ser  
1 5 10 15

<210> 4555  
<211> 15  
<212> PRT  
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<220>  
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<400> 4555  
Trp Gly Leu Leu Leu Ala Leu Leu Pro Pro Gly Ala Ala Ser Thr

1 5 10 15

<210> 4556  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 4556  
Leu Thr Tyr Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp  
1 5 10 15

<210> 4557  
<211> 15  
<212> PRT  
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<220>  
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<400> 4557  
Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg Gly Arg Ile Leu  
1 5 10 15

<210> 4558  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 4558  
Leu Ala Leu Ile His His Asn Thr His Leu Cys Phe Val His Thr  
1 5 10 15

<210> 4559  
<211> 15  
<212> PRT  
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<220>  
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<400> 4559  
Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr  
1 5 10 15

<210> 4560  
<211> 15  
<212> PRT  
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<220>  
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<400> 4560  
Val Leu Gly Val Val Phe Gly Ile Leu Ile Lys Arg Arg Gln Gln  
1 5 10 15

<210> 4561  
<211> 15  
<212> PRT  
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<220>  
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<400> 4561  
Gln Met Arg Ile Leu Lys Glu Thr Glu Leu Arg Lys Val Lys Val  
1 5 10 15

<210> 4562  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 4562  
Asp Glu Ala Tyr Val Met Ala Gly Val Gly Ser Pro Tyr Val Ser  
1 5 10 15

<210> 4563  
<211> 15  
<212> PRT  
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<220>  
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<400> 4563  
Ser Arg Leu Leu Gly Ile Cys Leu Thr Ser Thr Val Gln Leu Val  
1 5 10 15

<210> 4564  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 4564  
Leu Leu Asn Trp Cys Met Gln Ile Ala Lys Gly Met Ser Tyr Leu  
1 5 10 15

<210> 4565  
<211> 15  
<212> PRT  
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<220>

<223> Artificial Peptide

<400> 4565

Val	Arg	Leu	Val	His	Arg	Asp	Leu	Ala	Ala	Arg	Asn	Val	Leu	Val
1				5					10					15

<210> 4566

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 4566

Ala	Arg	Leu	Leu	Asp	Ile	Asp	Glu	Thr	Glu	Tyr	His	Ala	Asp	Gly
1				5					10					15

<210> 4567

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 4567

Lys	Val	Pro	Ile	Lys	Trp	Met	Ala	Leu	Glu	Ser	Ile	Leu	Arg	Arg
1				5					10					15

<210> 4568

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 4568

Ile	Lys	Trp	Met	Ala	Leu	Glu	Ser	Ile	Leu	Arg	Arg	Arg	Phe	Thr
1				5					10					15

<210> 4569

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 4569

Val	Trp	Glu	Leu	Met	Thr	Phe	Gly	Ala	Lys	Pro	Tyr	Asp	Gly	Ile
1				5					10					15

<210> 4570

<211> 15

<212> PRT  
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<220>  
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<400> 4570  
Cys Trp Met Ile Asp Ser Glu Cys Arg Pro Arg Phe Arg Glu Leu  
1 5 10 15

<210> 4571  
<211> 9  
<212> PRT  
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<220>  
<223> DR7 preferred motif

<220>  
<221> VARIANT  
<222> (1)..(1)  
<223> Met, Phe, Leu, Ile, Val, Trp, or Tyr

<220>  
<221> VARIANT  
<222> (5)..(5)  
<223> May be any amino acid

<220>  
<221> VARIANT  
<222> (6)..(6)  
<223> Ile, Val, Met, Ser, Ala, Cys, Thr, Pro, or Leu

<220>  
<221> VARIANT  
<222> (8)..(8)  
<223> May be any amino acid

<220>  
<221> VARIANT  
<222> (9)..(9)  
<223> Ile or Val

<400> 4571  
Xaa Met Trp Ala Xaa Xaa Met Xaa Xaa  
1 5

<210> 4572  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> DR7 deleterious motif

<220>  
<221> VARIANT  
<222> (1)..(1)  
<223> May be any amino acid

<220>

<221> VARIANT  
<222> (3)..(3)  
<223> May be any amino acid

<220>  
<221> VARIANT  
<222> (5)..(6)  
<223> May be any amino acid

<220>  
<221> VARIANT  
<222> (7)..(7)  
<223> Gly, Arg, or Asp

<400> 4572  
Xaa Cys Xaa Gly Xaa Xaa Xaa Asn Gly  
1 5